

**WHAT IS CLAIMED IS:**

1. A mirror holding base for holding a first mirror, disposed in a chassis of a scanner, wherein the first mirror reflects an incident light to a second mirror or a lens, the mirror holding base comprising:

5           a first holding plate pair, for holding the first mirror and providing a first optical path; and

              a second holding plate pair, not parallel to the first holding plate pair, for holding the first mirror and providing a second optical path.

10          2. The mirror holding base according to claim 1, wherein the mirror holding base is a concave lump structure.

              3. The mirror holding base according to claim 1, wherein the mirror holding base is formed by two lump structures and the first holding plate pair and the second holding plate pair are respectively upper surfaces of the two lump structures.

15          4. The mirror holding base according to claim 3, wherein the two lump structures are manufactured as a unitary piece.

              5. A mirror holding apparatus, disposed in a chassis of a scanner for holding a first mirror, the mirror reflecting an incident light to a second mirror or a

lens, the mirror holding apparatus comprising:

a left holding base, comprising at least a first holding plate and a second holding plate, wherein the first holding plate being not parallel to the second holding plate; and

5           a right holding base, comprising at least a third holding plate and a fourth holding plate and the third holding plate being not parallel to the fourth holding plate;

wherein the first holding plate and the corresponding third holding plate are parallel and hold the first mirror to transmit in a first optical path and the second 10 holding plate and the corresponding fourth holding plate are parallel and hold the first mirror to transmit in a second optical path.

6. The mirror holding apparatus according to claim 5, wherein the left holding base and the right holding base both include concave lump structures.

7. The mirror holding apparatus according to claim 5, wherein the left 15 holding base is formed by a first lump structure and a second lump structure, and the right holding base is formed by a third lump structure and a fourth lump structure.

8. The mirror holding apparatus according to claim 7, wherein the first

holding plate and the second holding plate are respectively upper surfaces of the first lump structure and the second lump structure and the third holding plate and the fourth holding plate are respectively upper surfaces of the third lump structure and the fourth lump structure.

5        9. The mirror holding apparatus according to claim 7, wherein the first lump structure and the second lump structure are manufactured as a unitary piece, and the third lump structure and the fourth lump structure are manufactured as a unitary piece.

10      10. The mirror holding apparatus according to claim 5, wherein the first holding plate and the third holding plate hold a third mirror, the second holding plate and the fourth holding plate hold a fourth mirror, and the third mirror is larger than the fourth mirror.

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